

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SG2003/000299

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
Int. Cl. <sup>7</sup> : G06F 17/27		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols)		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) USPTO, DWPI (IPC: as above, natural language, linguistics, named entity, proper noun, name, recognition, markov, hmm, relax, back off, constraint, sparse, etc.)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Zhou, G. et al, <i>Named Entity Recognition using an HMM-based Chunk Tagger</i> Proc. 40 <sup>th</sup> Annual Meeting of the Association for Computational Linguistics, July 2002 pp. 473-80	1-23
A	Bikel, D. M. et al, <i>An Algorithm that Learns What's in a Name</i> Machine Learning, Vol. 34, 1999, pp 211-31	1-23
A	Katz, S. M. <i>Estimation of Probabilities from Sparse Data for the Language Model Component of a Speech Recognizer</i> IEEE Trans. on Acoustics, Speech and Signal Processing, Vol. 35, No. 1987, pp. 400-1	1-23
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
* Special categories of cited documents:		
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	
"P" document published prior to the international filing date but later than the priority date claimed		
Date of the actual completion of the international search 18 February 2004	Date of mailing of the international search report 24 FEB 2004	
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized officer  M. D. HOLLINGWORTH Telephone No : (02) 6283 2024	

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Saito, K. et al, <i>Multi-Language Named-Entity Recognition System based on HMM</i> Proc. ACL 2003 Workshop on Multilingual and Mixed-Language Named Entity Recognition, pp. 41-8	1-23
A	US 6,052,682 A (MILLER et al), 18 April 2000 the whole document	1-23
A	US 6,311,152 B1 (BAI et al), 30 October 2001 the whole document	1-23
A	US 2003/0191625 A1 (GORIN et al), 9 October 2003 the whole document	1-23

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/SG2003/000299

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member	
US	6052682	NONE	
US	6311152	WO	0062193
US	2003191625	US	6681206
		WO	03088080
END OF ANNEX			

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